Docket No. 6173-29US

IN THE CLAIMS:

Please amend the claims as follows:

1. (Original) A method of providing location-based services for a call in a packet switched wireless communications network, the method comprising the steps of:

sending a request to setup a communication channel from a first network element to a second network element, said request having an indication in said request indicating that the communication channel will be used for transferring a call which requires location-based services.

2. (Original) A method as recited in claim 1, wherein said first network element contacts a local entity which is capable of handling set calls.

3. (Original) The method as recited in claim 2, further comprising the step of returning an accept message from said second network element to said first network element, said accept message acknowledging said request and providing the address of an entity handling said call.

4. (Original) The method as recited in claim 2 or 3, further comprising the step of transferring said call to said entity.

5. (Original) The method recited in claim 4, wherein said second network element selects a third network element according to said indication in said request.

6. (Original) The method recited in claim 5, wherein data traffic on said communication channel is filtered according to filtering information set by said second network element or said third network element.

7. (Original) The method recited in claim 4, wherein the second network element sends a request to start location measuring when receiving said request from said first network element.

8. (Original) The method recited in claim 7, wherein the request is a SM Service Request.

9. (Original) The method recited in claim 4, wherein said second network element sends a request to setup said communication channel to a third network element.

10. (Original) The method recited in claim 9, wherein said third network client gets a traffic flow template (TFT) as filtering information in response to said request to setup said communication channel.

11. (Original) The method recited in claim 10, wherein said third network element is a Gateway GPRS Support Node (GGSN).

12. (Currently Amended) The method of any of the preceding claims, wherein said second network element is a Serving GPRS Support Node (SGSN).

13. (Original) The method recited in claim 4, wherein said second network element is an Internet GPRS Service Node (IGSN) which sets a traffic flow template (TFT) as filtering information in response to said request to setup said communication channel.

14. (Original) The method recited in claim 4, wherein a parameter in said request is used to indicate that said communication channel will be used for transferring an emergency call.

15. (Currently Amended) The method recited in claim 14 ~~13~~, wherein said parameter in said request is the Access Point Name (APN).

16. (Original) The method recited in claim 7, wherein the request is an Activate PDP Context Request.

17. (Original) The method recited in claim 7, wherein the request is an Activate Secondary PDP Context Request.

18. (Original) The method recited in claim 7, wherein the request is an Activate AA PDP Context Request.

19. (Original) The method recited in claim 7, wherein the request is an Activate Emergency PDP Context Request.

20. (Original) The method recited in claim 4, wherein said first network element sends location information to said entity handling said call.

21. (Original) The method of claim 20, wherein said location information is Service Area Identification (SAI), Routing Area Identity (RAI), Cell –ID , coordinate information or any combination of these.

22. (Original) The method recited in claim 4 wherein said second network element sends location information to said entity handling said call.

23. (Original) The method recited in claim 4 wherein said entity handling said call may request location information from a location calculation entity.

24. (Original) The method recited in claim 4 wherein said location calculating entity is a Radio Network Controller (RNC).

25. (Currently Amended) The method recited in claim 14 ~~13~~, wherein a first

network element generates said request message and includes said parameter in said request message.

26. (Original) The method recited in claim 3, wherein said entity handling said call comprises a Call State Control Function (CSCF) or a Public Safety Answering Point (PSAP).

27. (Original) The method recited in claim 3, wherein said first network element sends a request to setup a secure communication channel for signaling prior to said request to setup said communication channel indicating that said call is a call requiring location-based services.

28. (Currently Amended) The method recited in claim 27 ~~25~~, wherein said request to setup a secure communication channel for signaling is an SM Service Request.

29. (Currently Amended) The method recited in claim 28 ~~26~~, wherein the second network element sends a request to initiate location measuring in response to said request to setup secure communication channel for signaling.

30. Cancelled.

31. Cancelled.

32. Cancelled.

33. (Currently Amended) A method of ~~routing~~ providing location-based services for a call from a first network element (UE) in a packet switched wireless communications network, the method comprising the steps of:

providing location information for the said first network element (UE) from a second network element in a radio access network (RAN); and

sending a first a request to setup a call from the said first network element (UE)

to a third network element (CSCF) , said request including the said location information for the first network element(UE); .

34. (Currently Amended) A method ~~of~~ according to claim 33, ~~wherein the said location information is provided to the first network element (UE) from a network element (RNC) in the radio access network,~~ wherein the first network element sends a second request to activate a communication connection (PDP Context) to a fourth network element (SGSN) in the radio access network, the request including an indication that the communication connection is for emergency call.

35. (Currently Amended) A method according to ~~of~~ claim ~~34~~ 33, wherein the location information is provided in a RRC message.

36. (Currently Amended) A method according to ~~of~~ claim ~~34~~ 33, wherein the location information is broadcasted to the first network element (UE).

37. (Currently Amended) A method according to ~~of~~ claim 33, wherein the location information is forwarded to ~~the second~~ a fourth network element (SGSN) from ~~a~~ the second network element in the radio access network (RAN), the fourth network element (SGSN) sending the location information in an acceptance message to the second request to activate the communication connection (PDP Context) for the first network element (UE) before said request to set up a call.

38. (Currently Amended) A method ~~of claim 37~~ according to claim 33, wherein the communication connection is a PDP context and the acceptance message is the Accept PDP Context Activation message ~~wherein the second network element (SGSN) sends the location information in an acceptance message to a request to establish a communication connection (PDP Context) for the first network element (UE) before the said request to set up a call~~.

39. (Currently Amended) A method according to ~~of~~ claim 38, wherein the

communication connection is a PDP context and the acceptance message is the Accept PDP Context Activation message.

40. (Currently Amended) A method ~~of~~ according to claim 33, wherein the location information is provided to the first network element as a part of a positioning method.

41. (Currently Amended) A ~~The~~ method according to ~~recited in~~ claim 33, comprising a further step of selecting an entity (PSAP) handling emergency calls in the ~~second~~ packet switched network based at least in part, on the said location information included in the said request.

42. (Currently Amended) A method according to ~~of~~ claim 33, wherein the call is an emergency call.

43. (Currently Amended) A method ~~of~~ according to claim 33, wherein the ~~second~~ fourth network element (SGSN) allocates a temporary PS Domain Identifier for the call.

44. (Currently Amended) A method ~~of~~ according to claim 43, wherein the ~~second~~ fourth network element (SGSN) sends the said temporary PS Domain identifier to an entity maintaining location information (GLMC).

45. (Currently Amended) A method ~~of~~ according to claim 43 or 44, wherein the said temporary PS Domain Identifier is sent from the ~~second~~ fourth network element (SGSN) to the first network element (UE), from the first network element (UE) to the third network element (CSCF~~, PSAP~~) and from the third network element ~~(CSCF, PSAP) to an~~ (GSCF) to the entity handling emergency calls (EC).

46. (Currently Amended) A method ~~of 43~~ according to claim 44, wherein the temporary PS Domain identifier is used to identify an emergency call, when an entity handling emergency calls (EC) requests location information from an entity maintaining location

information (GLMC).

47. (Currently Amended) The method according to ~~recited in~~ claim 33, wherein said third network element ~~is a call control local entity which is capable of handling call set up (CSCF, PSAP)~~ is a call state control function (CSCF).

48. (Currently Amended) The method recited in claim 42, further comprising the step of returning an accept message in response to a request for an emergency call from the ~~first~~ fourth network element, said accept message acknowledging said request and providing the address of said ~~call control entity~~ third network element.

49. (Currently Amended) The method recited in claim 41, further comprising the step of transferring said emergency call to said selected ~~PSAP~~ entity.

50. (Currently Amended) The method recited in claim 33, wherein the ~~second~~ fourth network element (SGSN) indicates to the radio access network to start a positioning method in order to get a location ~~estimates~~ estimate in response to receiving said second request ~~for a call~~ from said first network element (UE)

51. (Currently Amended) The method recited in claim 37, wherein said second network element requests the location information from the radio access network corresponding to the ~~mobile terminal~~ first network element in response to receiving said request for an emergency call from said first network element.

52. (Currently Amended) The method recited in claim 50, wherein the location estimate obtained by said positioning method is provided to a Gateway Mobile Location ~~Center (GMLC)~~ Centre (GMLC).

53. (Currently Amended) The method recited in claim 51, wherein said selected ~~PSAP~~ entity handling emergency calls obtains said location estimate from said Gateway Mobile Location Centre (GMLC).

54. Cancelled.

55. (Currently Amended) The method recited in claim 53, wherein the ~~emergency~~ call is identified using an assigned phone number when said selected ~~PSAP~~ pentity handling emergency calls (PSAP) obtains said location estimate from said ~~GMLC~~ Gateway Mobile Location Center (GMLC).

56. (Currently Amended) The method recited in claim ~~47~~ 50, wherein the positioning method is performed in the first network element (UE).

57. (Currently Amended) The method recited in claim 33, wherein the first network element (UE) requests that a positioning method be started at the same time that it sends the call setup request, and wherein the first network element is a user equipment (UE, MS), said location information being Service Area Identification (SAI), Routing Area Identity (RAI), Cell ID, coordinate information or any combination of these.

58. Cancelled.

59. Cancelled.

60. (Currently Amended) The method according to claim ~~of any one of claims~~ 33 ~~to 57~~, wherein the said location information is Service Area Identification (SAI), Routing Area Identity (RAI), Cell –ID , coordinate information or any combination of these.

61. (Currently Amended) A packet switched wireless communication network, comprising:

a user equipment (UE);

a radio access network (RAN); and

a first network element in the radio access network, said first network element providing location information for said user equipment; and

a second network element in the packet switched network, said second network element receiving a request from the user equipment to set up a call to said first network element, the request including said location information for the user equipment ~~wherein location information is sent from said radio access network to said user equipment and when the user equipment sends a request to set up a call to said network element, the request comprises said location information~~.

62. (Currently Amended) A packet switched wireless communication network according to claim 61, wherein said second network element is a ~~CSCF or a PSAP~~ call state control function (CSCF) or a Public Safety Answering Point (PSAP).

63. (Currently Amended) A packet switched wireless communication network according to claim 62, wherein said ~~SGSN~~ first network element receives said Serving Area ID and forwards said Service Area ID to said ~~mobile terminal~~ the user equipment.

64. (Currently Amended) A packet switched wireless communication network according to claim 63, further comprising a call control entity receiving said Service Area ID in an emergency call setup request from ~~mobile terminal~~ the user equipment.

65. (Currently Amended) A packet switched wireless communication network according to claim 64, wherein said call control entity has a database identifying a plurality of Public Safety Answering Points (PSAPS) and corresponding said plurality of Public Safety Answering Point ~~PSAPs~~ with Service Area IDs.

66. (Currently Amended) A packet switched wireless communication network according to claim 64, wherein said call control entity selects a Public Safety Answering Point

~~PSAPs~~ based, at least in part, on said Service Area ID.

67. (New) A user equipment (UE) in a packet switched wireless communications network, the user equipment (UE) adapted to carry a method comprising:

sending a first request to setup a call to a first network element in the packet switched wireless communication, said request including a request for location information of the user equipment (UE); and

receiving location information obtained by a second network element in the radio access network.